

GUJARAT ENGINEERING RESEARCH INSTITUTE
Narmada , Water Resources, Water Supply & Kalpsar Department
Race Course, Vadodara - 390 007.

Data Required for Design of Concrete Mix

(A) Field Data

- 1 Name of work :
- 2 Grade of Concrete :
- 3 Characteristic Strength : Kg/cm² or N/mm²
- 4 Workability : High/ Medium / Low / Very low
Slump (mm) :

- 5 Type of Exposure : Mild / Moderate/ Severe/ Very Severe/ Extreme

- 6 Degree of quality control : Very Good/ Good / Fair
- 7 Limits of Cement Level : Max kg/m³
as per IS 456: 2005 Min kg/m³

- 8 Mode of mixing Concrete : Machine
- 9 Mode of Compaction : Vibrator
- 10 Additional Information :
- 11 M.S.A.
- 12 Type of Concrete : RCC/ PCC/ PRESTRESSESD CONCRETE
- 13 Admixtures to be used or not : Yes / No
- 14 Dosage of Admixture recommended
Brand Name :
Batch No. :
(Please enclosed copy of literature.)
- 15 Any special requirement:

(B) Materials :

- 1 Cement
 - a. Type of Cement : OPC
 - b. Grade of Cement :
 - c. Date of receipt of Cement consignment :
 - d. Storage condition of Cement :

2 Fine Aggregate (FA)

- a. Source :
- b. Permissible gradation as per specification :
- c. Fineness Modulus (permissible as per specification) :
- d. Permissible limits of Silt Content as per specification :

3 Coarse Aggregate : (CA)

- a. Type of CA
- b. Source of quarry in details (Give address)

4 Water

- a. Source _____River _____ Well
_____ Village

- b. Quantity of each material required :

Material	Required quantity in full bag Cement per design
Cement	3
Fine aggregate	7
Coarse aggregate	
80 to 40 mm	10
40 to 20 mm	10
20 to 10 mm	8
10 to 4.75 mm	5
Water sample in plastic container	50 Liters per design

5 Sampling done by :

6 Date of Sampling :

Sample brought by :

Customer signature with
Name & Stamp.

Mob. No :

Email :

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TITLE INFORMATION OF INCOMING SAMPLE

- 1 Name of work :
- 2 Name & designation of person carrying the sample :
- 3 Condition of sample : Sealed/ Unsealed
- 4 Name of material :
- 5 Quantity of sample :
- 6 Quantity of material from which sample is collected :
- 7 Method of sampling :
- 8 Date of sample collected and time for water sample :
- 9 Identification mark :
- 10 Sampling done by :
- 11 Purpose of testing :
- 12 Required tests & testing sepcification :
- 13 Name of manufacturer / quarry of material / Name of
Rriver and location. :
- 14 Batch No. with Month & year. :
- 15 Grade of Concrete / Cement :
- 16 Date of casting (For 7 & 28 days) :
- 17 Size of aggregate :
- 18 Dia of Steel in mm :
- 19 Timber Seasoned or not :
- 20 Name and full postal address of suppliers office with
contact No. & Email :
- 21 Name & address of division with phone No. & STD code
with contact No. & Email :
- 22 Name & address of Circle Office with contact No. & Email :

- 23 Name & address of CE Office with contact No. & Email :
- 24 Payment details. :

Customer signature with
Name & Stamp.

(FOR OFFICE USE ONLY)

- 1 Samples received by :
- 2 Instruction / Note if any :

Customer requirement reviewed:

Signature of SSA/JSA

Assistant Research
Officer, Material Testing
Division, GERI, Vadodara